REMARKS

The application now includes claims 1-103. Claim 68 was amended.

In response to the restriction requirement applicants elect group 1, including claims 1-67, with partial traverse.

Claim 68 was amended to remove the term in vivo in order to emphasize the fact that claims 1 and 68 should be examined together.

Groups 1 and 2, including independent claims 1 and 68, respectively, relate to the same special technical feature and should be examined together. Following is a comparison of claims 1 and 68, which shows that claims 1 and 68 relate to the same special technical feature.

Claim 1 relates to: "a method of <u>training</u> a biological <u>neural network</u> using a controller", and claim 68 relates to: "Apparatus for <u>training</u> a <u>neural network</u>".

Claim 1 requires "<u>stimulating</u> a <u>neural network</u> by said controller applying at least an <u>input</u> signal to the network", and claim 68 requires "an input <u>stimulator</u> that generates an <u>input</u> stimulation to <u>said network</u>".

Claim 1 requires: "detecting an output response of the network by said controller", and claim 68 requires "a detector that detects at least an indication of a response of said network".

Claim 1 requires "modifying said stimulation by said controller for at least a period of time if said response matches a desired at least approximate response", and claim 68 requires: "a controller that selectively controls said input stimulator such that if a desired output is detected, said input stimulation is changed".

Accordingly, applicant requests that the Examiner examine claims 1-82.

An action on the merits is respectfully awaited.

Respectfully submitted, Shimon Marom, et al.

Yaakov Schatz Yaakov Schatz Reg. No. 44.320

January 6, 2005 William H. Dippert, Esq. Reed Smith LLP 599 Lexington Avenue, 29th Floor New York, NY 10022-7650 Tel: (212) 521-5400

PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY	•				
To: PAUL FENSTER FENSTER & COMPANY PATENT ATTORNEY P.O. BOX 10256 PETACH TIKVA, ISRAEL 49002	PCT COMMUNICATION IN CASES FOR WHICH NO OTHER FORM IS APPLICABLE				
	Date of Mailing (day/month/year) 25 Pebruary 2004 (25.02.2004)				
Applicant's or agent's file reference	REPLY DUE				
246/02624	see paragraph 1 below				
International application No.	International filing date				
PCT/IL02/00204	(day/month/year) 13 March 2002 (13.03.2002)				
Applicant					
WIDE HORIZON HOLDINGS INC.					
1. REPLY DUE within months/days from the above date of mailing					
NO REPLY DUE					
2. COMMUNICATION:	•				
The International Preliminary Examination Report (IPER) mailed by the IPEA/US on 09 October 2003 failed to properly list the claims in Box V. Although claims 1-103 were indicated as meeting the criteria set out in PCT Articles 33(2)-(4) in the Citations and Explanations section of Box V, the Statement section of Box V contained inconsistent information. The Corrected IPER attached hereto includes the corrected listing of the claims in the Statement section of Box V. No other changes have been made.					
·	,				
	i				
	•				
Name and mailing address of the IPEA/US	Authorized officer				
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents	· ·				
P.O. Box 1450 Alexandria, Virginia 22313-1450	Harry C Kim L				
Facsimile No. (703)305-3230 Telephone No. 703-305-3257 form PCT/IPEA/424 (January 1994)					

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	Applicant's or agent's file reference 246/02624	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
	International application No.	International filing date (day/mon	th/year) Priority date (day/month/year)	
	PCT/IL02/00204 International Patent Classification (IPC)	13 March 2002 (13.03.2002)	13 March 2001 (13.03.2001)	
	1			
	IPC(7): A61B 5/00 and US Cl.: 600/554 Applicant	, BU //48; 128/925 ···		
	WIDE HORIZON HOLDINGS INC.			
``	This international prelimin Examining Authority and i	ary examination report has been s transmitted to the applicant ac	n prepared by this International Preliminary ecording to Article 36.	
~ .	2. This REPORT consists of a total of 3 sheets, including this cover sheet.			
	which have been amen	ided and are the basis for this r (see Rule 70.16 and Section 60)	sheets of the description, claims and/or drawings eport and/or sheets containing rectifications made 7 of the Administrative Instructions under the PCT).	
	This report contains indicat	ions relating to the following it	erne.	
	S. I am ropert boundary angular	:	ALIIS.	
	I Basis of the repo	rt	•	
	II Priority	:	•	
	III Non-establishme	of of report with regard to move	lty, inventive step and industrial applicability	
`	IV Lack of unity of	invention		
3	V Reasoned stateme applicability; cita	ent under Article 35(2) with reg mons and explanations supporti	ard to novelty, inventive step or industrialing such statement	
	VI Certain documen	•	·	
	VII Certain defects in	the international application		
	, , , ,	ons on the international applica	tion ·	
		· ;		
	Date of submission of the demand	Date of	f completion of this report	
	10 October 2002 (10.10.2002)	08 Aug	ust 2002 (08.08.2002)	
	Name and mailing address of the IPEA/US Mail Stop FCT, Attn. IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 223 13-1450 Facsimile No. (703)305-3230	Carl H.	Layno Diane Smith f ne No. (703) 308-3694	
'	Form PCT/IPEA/409 (cover sheet)(July 199	8)		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.		
PCT/IL02/00204	;	

I.	Basis of the report	
l.	With regard to the elements of the international application:*	
l	the international application as originally filed.	
	the description:	
	pages 1-73 as originally filed	
	pages <u>NONE</u> , filed with the demand pages <u>NONE</u> , filed with the letter of	
	the claims:	
	pages 7483 as originally filed	
	pages NONE as amended (together with any statement) under Article 19	
	pages NONE , filed with the demand	
	pages NONE, filed with the letter of	
	the drawings: pages 1-12 , as originally filed	
	pages NONB filed with the demand	
	pages NONB , filed with the letter of	
	the sequence listing part of the description;	
	pages NONE, as originally filed pages NONE, filed with the demand	
	pages NONE, filed with the letter of	
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the	
1	anguage in which the international application was filed, unless otherwise indicated under this item	
	These elements were available or furnished to this Authority in the following language which is:	
į	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).	
	the language of publication of the international application (under Rule 48.3(b)).	
	the language of the translation furnished for the purposes of international preliminary examination (under Rules	
, ·	\$5,2 and/or \$5,3). With regard to any moderation and/or parties and a survey of the same and the	
J.	With regard to any nucleofide and/or antino acid sequence disclosed in the international application, the nternational preliminary examination was catried out on the basis of the sequence listing:	
	contained in the international application in printed form	
- [filed together with the international application in computer readable form.	
ĺ	furnished subsequently to this Authority in written form.	
ĺ	furnished subsequently to this Authority in computer readable form.	
The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the		
international application as filed has been furnished.		
	The statement that the information recorded in computer readable form is identical to the written sequence listing	
	has been furnished.	
4. [The amendments have resulted in the cancellation of:	
	the description, pages NONE	
	the claims, Nos. NONE	
•		
. Г	the drawings, sheets/fig NONE This expect has been east-blisted as if former in the content of	
,. L	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(o)).**	
• Re	placement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to be	
,	sport as the supply free and are not annexed to this report since they do not contain amendments. Bully 70 16 and 30 130	
24	ty replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.	
Dem 1	PCT/IPRA/409 (Rev I) (Inly 1998)	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/IL02/00204

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. STATEMENT				
Novelty (N)	Claims 1-103	YES		
i	Claims NONE	МО		
Inventive Step (IS)	Claims 1-103	YES		
-	Claims NONE	NO		
Industrial Applicability (IA)	Claims 1-103	YES		
	Claims NONE	NO		

2. CITATIONS AND EXPLANATIONS

Claims 1, 6, 7, 9, 11, 14, 15, and 24 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest details reciting method steps used in training "biological" neural networks. The Tumey et al '896 patent describes the training of an 'electrical" neural network made up of electronic circuits rather than a "biological" one. The applicant's claims are all drawn to training the neural network within a person (i.e. comprising neurons).

Claims 2-5, 8, 10, 12, 13, 16-23, and 25-103 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest details regarding modifications in localized stimulation (claims 2-5,8), the application of magnetic, chemical, or electric field stimulations (claims 10,12,13), various neural network output responses (claims 16-23), in-vitro growth of a neural network (claims 25-28), various details regarding in-vivo growth of a neural network both in animals and humans (claims 29-99), and various aspects of training the neural network while a patient is drugged (claims 100-103).

Form PCT/IPEA/409 (Box V) (July 1998)

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